



EXISTING MANHOLE EXISTING UNDERGROUND POWER LINE ——— UGP ——— EXISTING SANITARY SEWER LINE EXISTING STORM INLET _____S___ ——— IRR ——— EXISTING IRRIGATION LINE EXISTING STORM CLEANOUT ————STS——— EXISTING STORM SEWER LINE EXISTING SANITARY CLEANOUT EXISTING WATERMAIN LINE _____ W ____ EXISTING ELECTRIC MANHOLE EXISTING CHILLED WATER LINE _____CW ____ EXISTING GATE VALVE EXISTING GAS LINE ____ G ____ EXISTING FIRE HYDRANT EXISTING UNDERGROUND TELEPHONE LINE -----UGT-----EXISTING LIGHT POLE ---OHP----EXISTING OVERHEAD POWER LINE EXISTING TRANSFORMER EXISTING UNDERGROUND TELEVISION _____ TV _____ EXISTING TREE _____FO ____ EXISTING UNDERGROUND FIBER OPTIC EXISTING CHAIN LINK FENCE ____ X ____ EXISTING TREE REMOVE EXISTING CONCRETE PAVEMENT EXISTING SHRUB REMOVE EXISTING ASPHALT PAVEMENT EXISTING POWER POLE REMOVE EXISTING CONCRETE CURB & GUTTER EXISTING POWER POLE WITH RISER /////\$T\$///// REMOVE EXISTING STORM SEWER LINE EXISTING POWER POLE ANCHOR '////\$\$////// REMOVE EXISTING SANITARY SERVICE LINE EXISTING TELEPHONE PEDESTAL REMOVE EXISTING WATERMAIN LINE EXISTING TELEVISION PEDESTAL REMOVE EXISTING MANHOLE EXISTING STREET SIGN EXISTING WATER SERVICE VALVE REMOVE EXISTING STORM INLET EXISTING OUTLET POST REMOVE EXISTING GATE VALVE

PLAN NOTES:

EXISTING GUARD POST

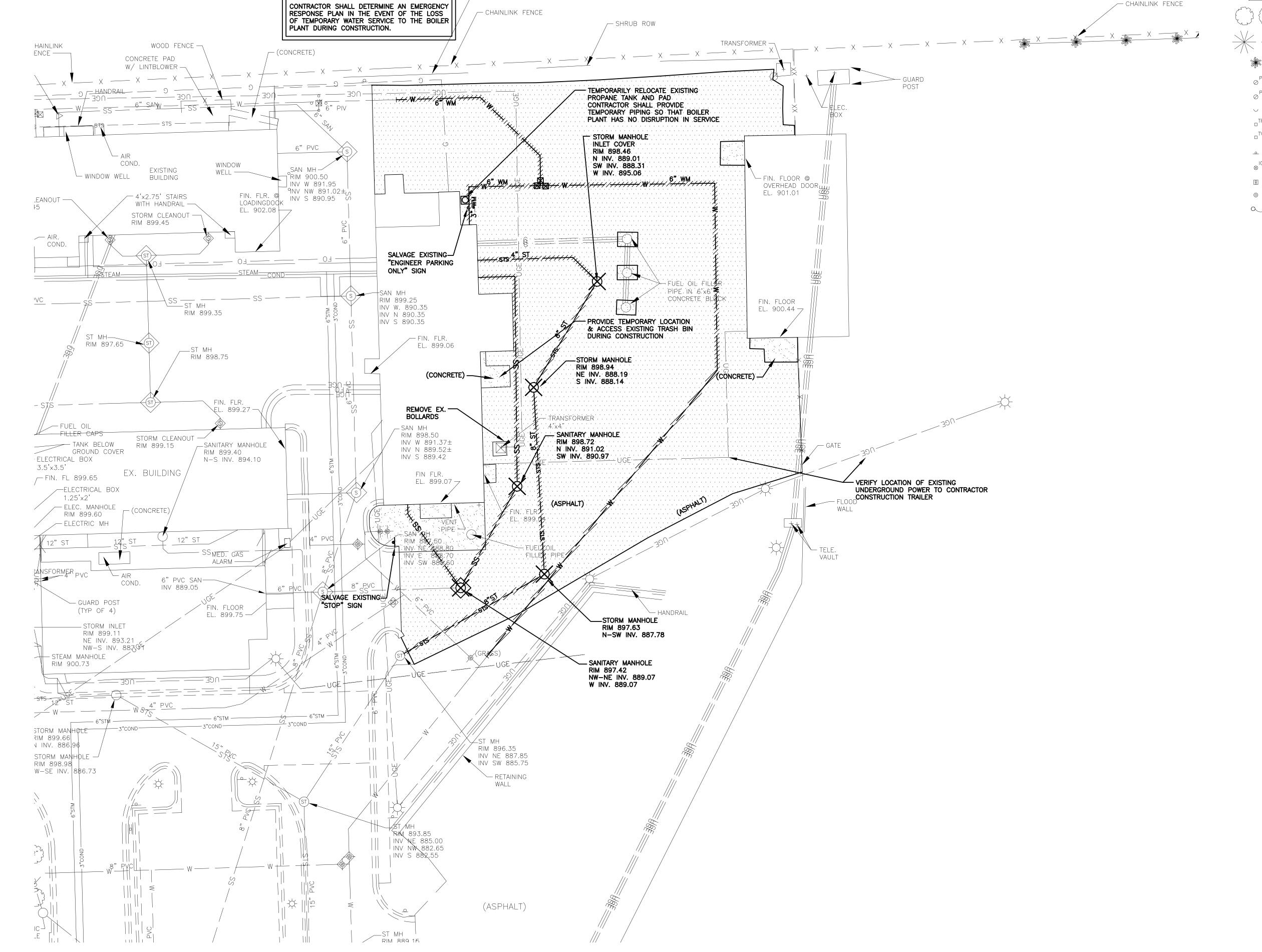
EXISTING FLAG POLE

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BENCHMARKS:

- 1. BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH. ELEVATION = 902.46 (NAVD 88)
- 2. BM#2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT. ELEVATION = 891.74 (NAVD 88)

VA MEDICAL CENTER FARGO, ND



— SHRUB ROW



Revisions

Date



IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers





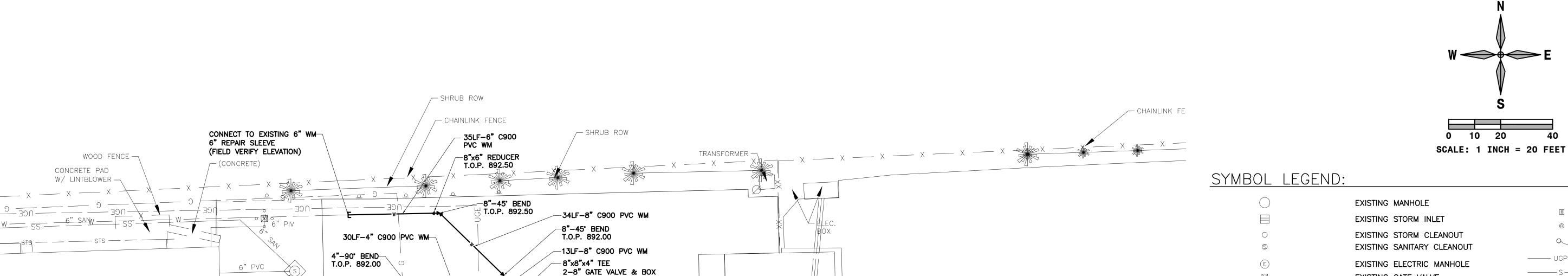
PHASE 8 - DEMOLITION PLAN		. .	VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT		
VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked By JM	Drawn By	Drawing

AutoCAD File Name 11-110 C8.1.DWG

SITE

MAY 17, 2012 AS NOTED C8.

Dwg. 37 of 45



ST MH #3 (48")

FILLER

E BLOCK

PIPE IN

CONCRET

W/ INLET CASTING & GRATE

INV W 894.00 (8" PVC)

INV S 890.86 (15" PVC)

-107LF-8" C900 PVC WM

- VERIFY LOCATION OF EXISTING

CONTRACTOR CONSTRUCTION

UNDERGROUND POWER TO

VAULT

-8"-45" BEND

T.O.P. 891.50

-20LF-8" C900

PVC WM

T.O.P. 891.50

55LF-8" C900

4" GATE VALVE & BOX

4" GATE VALVE & BOX

T.O.P. 891.50

62LF-8" C900 PVC WM

T.O.P. 892.00

-19LF-4" C900 PVC WM

-8"x4" TEE

- SAN MH #3 (48") RIM 898.55

@ 1.0%

INV W 890.83 (6" PVC)

INV S 890.73 (6" PVC)

__110LF-15" PVC ST

SAN MH #2 (48")

INV N 889.76 (6" PVC)

INV SW 889.66 (6" PVC)

ST MH #2 (48")

INV N 889.76 (15" PVC) INV SW 889.66 (15" PVC)

RIM 898.00

-8"-11**}** BEND T.O.P. 891.00

-91LF-15" PVC

50LF-8" C900 PVC WM

ST @ 1.0%

INV NW 889.17 (6" PVC) INV NE 889.17 (6" PVC)

INV W 889.07 (8" PVC)

(FIELD VERIFY ELEVATION)

6" PVC WM T.O.P. 886.00

-15" PVC ST INV 888.95

-CONNECT TO EXISTING 8" WM

RIM 897.40

RIM 898.35

4"-90' BEND[™]

T.O.P. 891.00

37LF-4" C900

PVC WM

37LF-8 PVC ST @ MIN 1.0%

16LF-4" C900

REDUCE DOWN FROM 4"-

CONNECT TO EXISTING

3" WATER SERVICE

TO 3" WATER SERVICE &

(FIELD VERIFY ELEVATION)

(VERIFY INTERIOR

LOCATION & ELEV.)

CONNECTION)

(SEE DETAIL 3/C10.2

CONNECT TO EXISTING

ROOF DRAIN (INSTALL

5LF-8" PVC ST UP TO

RIM 899.25 6" PVC SAN -

INV W. 890.35 **INV 891.09**

INV S 890.35 SAN SERVICE)

INV N 890.35 **(CONNECT TO EX.**

SAN @ 1.0%

97LF-6" SDR35 PVC-

INV 889.59 (CONNECT TO EX.

-4LF-6" SDR35

-6"-45" BEND

INV 889.55

PVC SAN @ 1.0%

49LF-6" SCH40

JOINTS @ 1.0%

RIM 896.35

INV NE 887.85

12" PVC ST

(ASPHALT)

INV 888.75

-CONNECT TO EXISTING

(PATCH EXISTING 12" ST INV)

STORM MANHOLE

SAN @ 1.0%

RIM \$98.50

INV W 891.37±

INV N 889.52±

INV /S 889.42

38LF-6" SDR-

INV NW 882.65 INV S 882.55

RIM 889.15 INV N 881.05

INV W 880.10 INV S 880.10

© 1.0% .

26LF-6" SDR35 PVC -

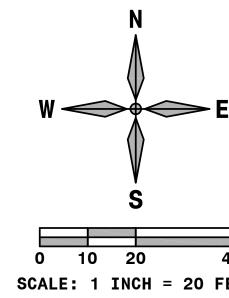
4" PVC WM ---

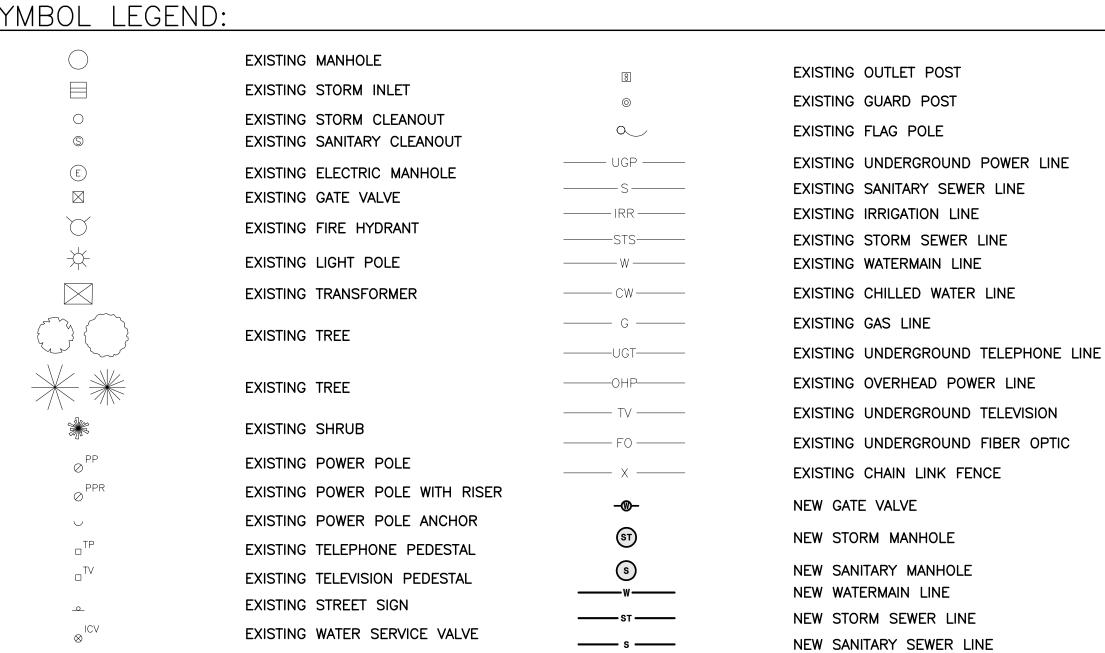
¬ RIM 900.50

INV W 891.95

9NV NW 891.02±

INV S 890.95





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REMOVAL.

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² RIM 890.20

CHAINLINK

FENCE ——

TORM CLEANOUT —

STORM CLEANOUT -

STORM CLEANOUT -

RIM 899.15

(CONCRETE)

RIM 899.35

RIM 898.75

__SANITARY MANHOLE

N-S INV. 894.10

RIM 899.40

ALARM —

4" PVC

RIM 899.45

ST MH—

TANK BELOW

__ELECTRICAL BOX

ELEC. MANHOLE

RIM 899.60

✓ ELECTRIC MH

- STORM INLET

RIM 899.11

NE INV. 893.21

NW-S INV. 887,991

ELECTRICAL BOX

FIN. FL 899.65

1.25'x2'

→ STEAM MANHOLE

-STORM MANHOLE / 3"COND-

RIM 900.73

RIM 899.66

N INV. 886.96

RIM 898.98

ELECTRIC -MANHOLE

RIM 893.45 . INV S 883.60 INV W 883.55±

DNCRETE)

STORM MANHOLE -

W-SE INV. 886.73

3.5'x3.5'

TRANSFORMER PVC

GROUND COVER

RIM 897.65 ★(ST)

IM 899.45



IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers



(ASPHALT)



PHASE 8 - UTILITY PLAN		Project Title	VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT		
VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked By JM	Drawn By	Drawing No.

Location

VA MEDICAL CENTER FARGO, ND

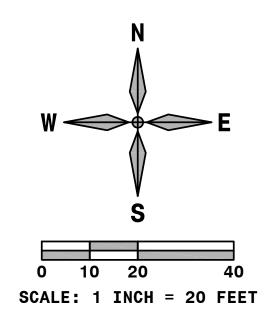
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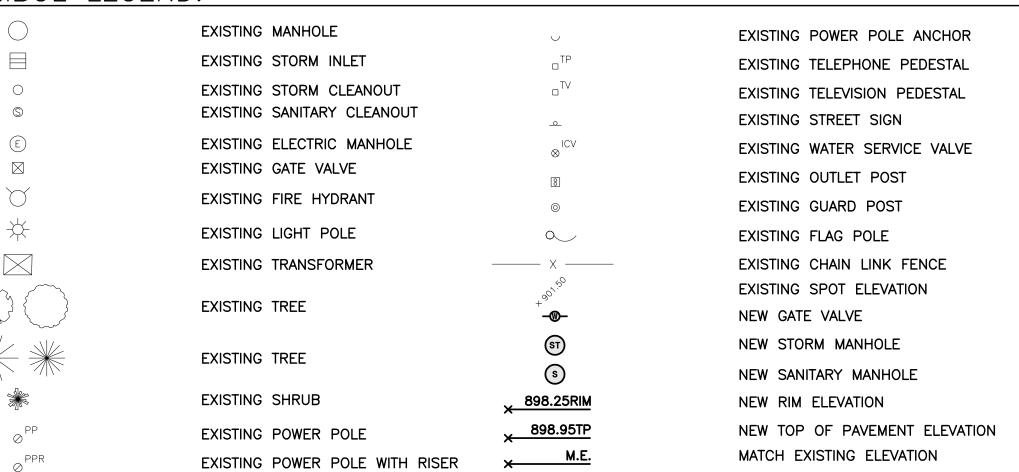
11-110 C8.2.DWG

Dwg. 38 of 45

C8.2







PLAN NOTES:

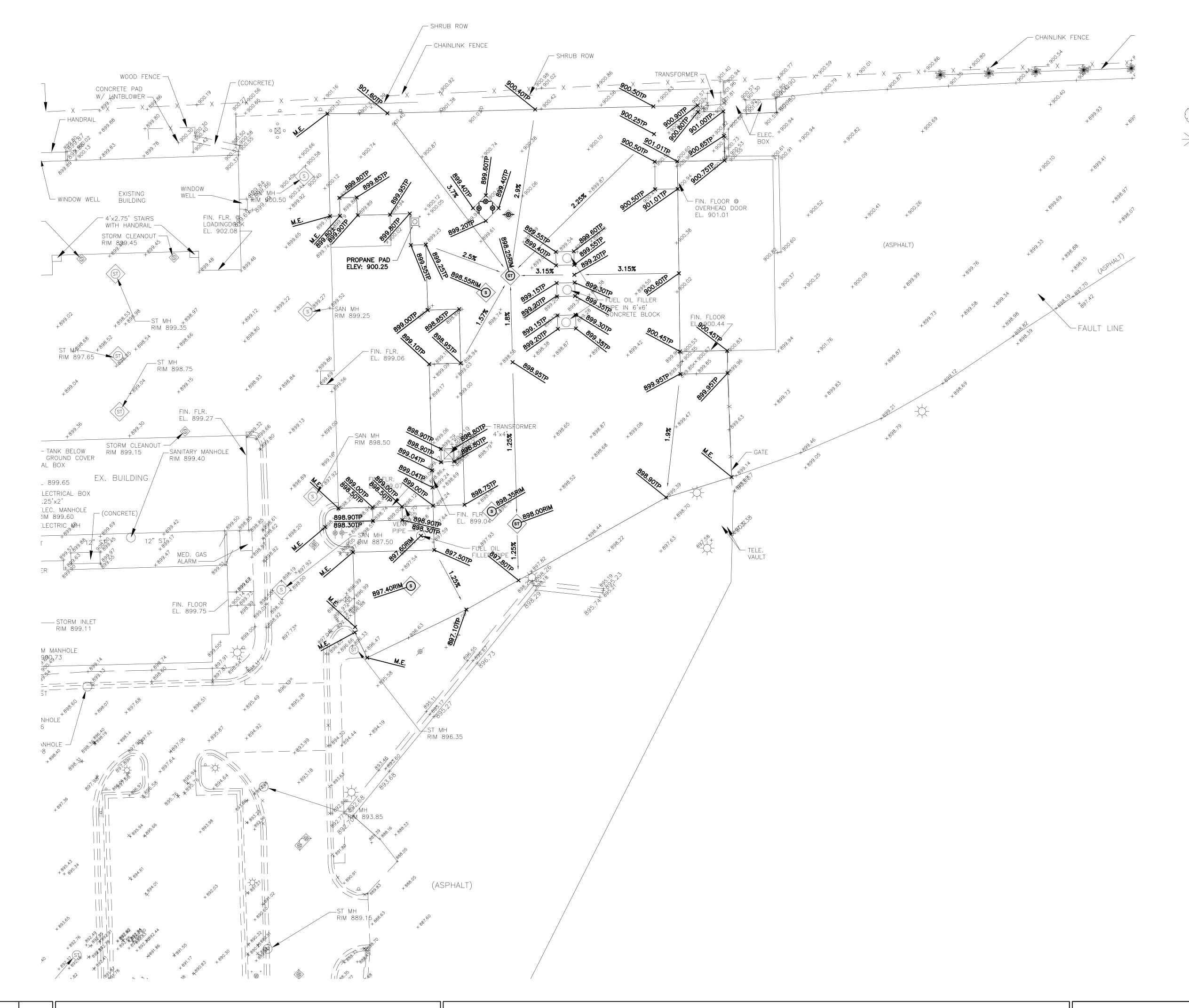
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NEW SLOPE & DIRECTION OF FLOW

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Revisions

Date



IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers





	PHASE 8 - GRADING PLAN		Project Title VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT			Date
	VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked By JM	Drawn By	Drav

Location

VA MEDICAL CENTER FARGO, ND

AutoCAD File Name 11-110 C8.3.DWG

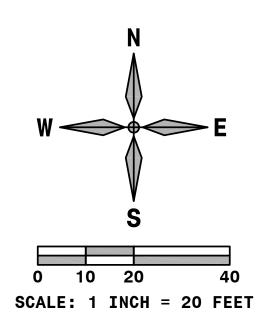
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MAY 17, 2012

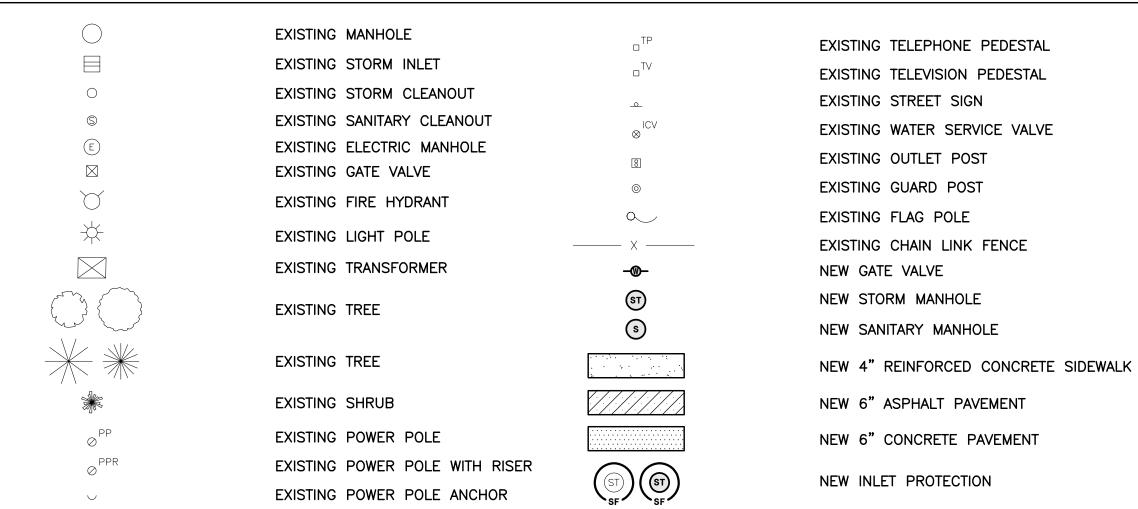
AS NOTED

Dwg. 39 of 45

C8.3







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NEW SILT FENCE

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WOOD FENCE -

WINDOW

RIM 899.35

RIM 898.75

FIN. FLR.

EL. 899.27 —

__SANITARY MANHOLE

RIM 899.40

MED. GAS

ALARM ----

FIN. FLOOR

EL. 899.75 —

 $\equiv \exists$

INSTALL SALVAGED-

"STQP" SIGN

FIN. FLR. @

LOADINGDOOK

EL. 902.08

PIPE BOLLARDS `

RIM 899.25

SIGN

INSTALL 3.33'x3.33'-PROPANE PAD & REINSTALL EXISTING

PROPANE TANK AND ASSOCIATED PIPING

INSTALL SALVAGED-

EL. 899.06

INSTALL PARKING -

INSTALL FOUR (4)-

EL. 899.07 –

··RIM·887.50

PIPE BOLLARDS

RIM 898.50

LOT STRIPING

140'

RIM 896.35

(ASPHALT)

/INSTALL PARKING LOT/STRIPING

"ENGINEERING

PARKING ONLY"

CONCRETE PAD W/ LINTBLOWER —

— 4'x2.75' STAIRS

WITH HANDRAIL —

STORM CLEANOUT -RIM 899.45

STORM CLEANOUT -

RIM 899.15

EX. BUILDING

- (CONCRETE)

─ WINDOW WELL

– TANK BELOW

AL BOX

.25'x2'

≀IM 899.60

ILECTRIC MH

—— STORM INLET

M MANHOLE

900.73

NHOLE

NHOLE -

Revisions

RIM 899.11

_ 899.65

LECTRICAL BOX

ILEC. MANHOLE

GROUND COVER

(CONCRETE)



/ SHRUB ROW

— CHAINLINK FENCE

— SHRUB ROW

BOX

∕— GATE

VAULT

(ASPHALT)

- FIN. FLOOR @

FIN. FLOOR

-INSTALL PARKING /LOT/ STRIPING /

CONTRACTOR SHALL SAW CUT

NEW CONSTRUCTION JOINTS AT

OR 12'x12' MAX.

A LENGTH/WIDTH RATIO OF 1.25

EL. 900.44 –

OVERHEAD DOOR EL. 901.01

IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers



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***	AND HUNDARO	1111

Drawing Title	Project Title	Project Title	
PHASE 8 - EROSION C		VA MEDICA REPLACE UTILITY MA	
VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked

AutoCAD File Name 11-110 C8.4.DWG

SITE

MAY 17, 2012 CAL CENTER
' MAINS AND ASPHALT | SCALE AS NOTED Drawn By VA MEDICAL CENTER FARGO, ND

C8.4